IP Link® Device Interface Communication Sheet

This document provides additional assistance with wiring your Extron IP Link enabled product to your device. Different components may require a different wiring scheme than those listed below.

For complete operating instructions, refer to the user's manual for the specific Extron IP Link enabled product or the controlled device manufacturer supplied documentation.

Device Specifications:

Device Type:	Video Projector
Manufacturer:	Hitachi
Firmware Version:	N/A
Model(s):	CP-AW250N, CP-WX3011N, CP-WX3014WN, CP-WX4021N, CP-X2514WN, CP-X3014WN, CP-X4014WN, CP-X4021N, CP-X5021N, iPJ-AW250N, iPJ-AW250NM, CP-A301N

Version History:

Driver Version	Date	IP Link Compiler	GC Version	Notes
10	5/9/2012	1.5.1	3.3.2	Added CP-A301N model.
9	4/19/2012	1.5.1	3.3.1	Added Picture Mode functionality.
8	1/4/2012	1.5.1	3.3.1	Extron Certified Version. Fixed MLC-62 table in the Communication Sheet.
7	9/27/2011	1.4.0	3.2.0	Extron Certified Version, adding models iPJ-AW250N, and iPJ-AW250NM
6	9/6/2011	1.4.0	3.2.0	Extron Certified version. Tested on CP-X3014WN. Added Audio Source Select and models: CP-WX3014WN, X3014WN, CP-X4014WN, and CP-X2514WN. Driver updated to new standards.
5	4/29/2011	1.4.0	3.1.0	Changed Volume Level Status to a slider bar.
4	1/31/2011	1.4.0	3.0.4	Fixed Volume Commands.
3	1/20/2011	1.4.0	3.0.4	Added volume to MLC62 support. Added models CP-WX4021N, CP-X4021N, and CP-X5021N.
2	12/14/2010	1.4.0	3.0.4	Added Model CP-AW250N.

1	10/6/2010	1.4.0	3.0.4	Initial version.

Driver Notes:

This driver must be bi-directional to function with the volume commands.
The Volume Level slider bar only returns the current status for the volume level and it cannot be used to control the volume level. The slider bar was added for compatibility with TLPs.

Control Commands & States:

Aspect Ratio*	Normal	4:3	16:9
	16:10	14:9	Native
Audio Mute	On	Off	
Auto Image	Execute		
Component Audio	Audio 1	Audio 2	Audio 3
	Off		
Computer 1 Audio	Audio 1	Audio 2	Audio 3
	Off		
Computer 2 Audio	Audio 1	Audio 2	Audio 3
	Off		
Freeze	On	Off	
HDMI AUDIO	Audio 1	Audio 2	Audio 3
	HDMI	Off	
Input	RGB 1	RGB 2	S-Video
	Video	HDMI	Component
	USB A	USB B	LAN
Lamp Mode	Normal	Eco	
LAN Audio	Audio 1	Audio 2	Audio 3
	Off		
Picture Mode	Normal	Cinema	Dynamic
	Board (Black)	Board (Green)	Daytime
	Whiteboard		
Power Control	On	Off	
Standby Audio	Audio 1	Audio 2	Audio 3
	Off		
S-Video Audio	Audio 1	Audio 2	Audio 3
	Off		
USB Type A Audio	Audio 1	Audio 2	Audio 3

	Off		
USB Type B Audio	Audio 1 Off	Audio 2	Audio 3
Video Audio	Audio 1 Off	Audio 2	Audio 3
Video Mute	On	Off	
Volume (Step)	Up	Down	

*Aspect Ratio Normal is not supported by these models: CP-WX3014WN, X3014WN, CP-X4014WN, and CP-X2514WN

Status Available:

Aspect Ratio	Normal	4:3	16:9
	16:10	14:9	Native
Audio Mute	On	Off	
Component Audio	Audio 1	Audio 2	Audio 3
	Off		
Computer 1 Audio	Audio 1	Audio 2	Audio 3
	Off		
Computer 2 Audio	Audio 1	Audio 2	Audio 3
	Off		
Connection Status	Connected	Disconnected	
Device Status	Air Flow Error	Cool Error	Cover Error
	Fan Error	Filter Error	Lamp Error
	Normal	Status Unavailable	Temp Error
Filter Usage	Hours		
Freeze	On	Off	
HDMI AUDIO	Audio 1	Audio 2	Audio 3
	HDMI	Off	
Input	RGB 1	RGB 2	S-Video
	Video	HDMI	Component
	USB A	USB B	LAN
Lamp Mode	Normal	Eco	
Lamp Usage	Hours		
LAN Audio	Audio 1	Audio 2	Audio 3
	Off		
Picture Mode	Normal	Cinema	Dynamic
	Board (Black)	Board (Green)	Daytime
	Whiteboard		
Power Control	On	Off	

Power Status	On	Off	Cooling Down
	Status Unavailable		
Standby Audio	Audio 1	Audio 2	Audio 3
	Off		
S-Video Audio	Audio 1	Audio 2	Audio 3
	Off		
USB Type A Audio	Audio 1	Audio 2	Audio 3
	Off		
USB Type B Audio	Audio 1	Audio 2	Audio 3
	Off		
Video Audio	Audio 1	Audio 2	Audio 3
	Off		
Video Mute	On	Off	
Volume Level Status*	0 to 48 in steps of 1		

*Status Only

MLC60 Series Supported Commands:

Aspect Ratio	Normal	4:3	16:9
	16:10	14:9	Native
Audio Mute	On	Off	
Auto Image	Execute		
Component Audio	Audio 1	Audio 2	Audio 3
	Off		
Computer 1 Audio	Audio 1	Audio 2	Audio 3
	Off		
Computer 2 Audio	Audio 1	Audio 2	Audio 3
	Off		
Freeze	On	Off	
HDMI AUDIO	Audio 1	Audio 2	Audio 3
	HDMI	Off	
Input	RGB 1	RGB 2	S-Video
	Video	HDMI	Component
	USB A	USB B	LAN
Lamp Mode	Normal	Eco	
LAN Audio	Audio 1	Audio 2	Audio 3
	Off		
Picture Mode	Normal	Cinema	Dynamic
	Board (Black)	Board (Green)	Daytime
	Whiteboard		
Power Control	On	Off	
Standby Audio	Audio 1	Audio 2	Audio 3
	Off		
S-Video Audio	Audio 1	Audio 2	Audio 3
	Off		

USB Type A Audio	Audio 1 Off	Audio 2	Audio 3
USB Type B Audio	Audio 1 Off	Audio 2	Audio 3
Video Audio	Audio 1 Off	Audio 2	Audio 3
Video Mute	On	Off	
Picture Mode	Normal Board (Black) Whiteboard	Cinema Board (Green)	Dynamic Daytime
RGB1 Volume (Step)	Up	Down	
RGB2 Volume (Step)	Up	Down	
Component Volume (Step)	Up	Down	
S-Video Volume (Step)	Up	Down	
Video Volume (Step)	Up	Down	
HDMI Volume (Step)	Up	Down	
USB A Volume (Step)	Up	Down	
USB B Volume (Step)	Up	Down	
LAN Volume (Step)	Up	Down	

Cable and Adapter Requirements:

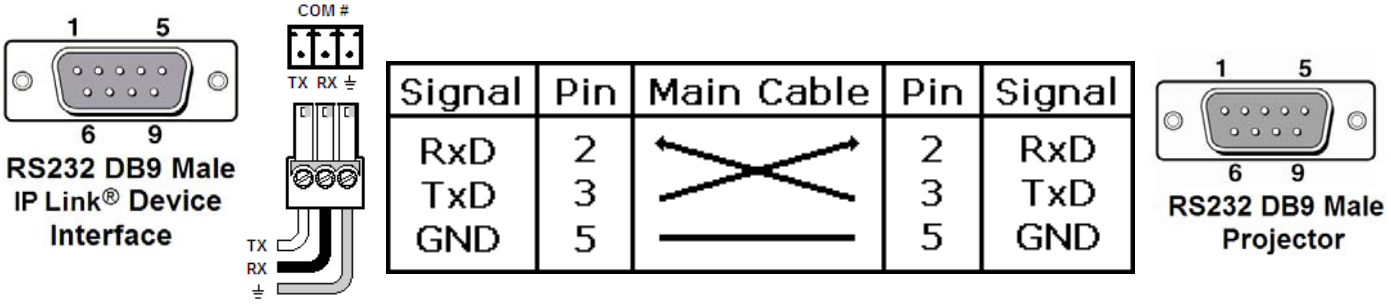
F/F RS-232 Null Modem Serial Cable

Notes for the Device:

Serial communication:

Port Type:	RS-232	**Parity:**	None
Baud Rate:	19200	**Stop Bits:**	1
Data Bits:	8	**Flow Control:**	None

Pin Assignments Diagram:



Note: Captive screw connector may also be used as a serial connection.

General Notes: